

FIGURE 1

LOCUS

Human AMP-activated protein kinase gamma 3 subunit (PRKAG3 gene), DNA 5' untranscribed-intron 2, 821 bp

FEATURES

5'UTR 313-331
exon 1 332-364
intron 1 365-726
exon 2 727-766
intron 2 767-821>

BASE COUNT 139 a 219 c 259 g 204 t

1 tctgagagcc caactctgtt caatgaccat gttccacat gctccaagcc acatcccctc
61 aaaaagggttc cctctagtt tcctcgatg acccaggagg cagctgagga ccaagtaccc
121 agatttatccg gtgcggccct tcctccagg caacccccag ctttcaggc tgtagcagct
181 gagcaaatgg gggcccccctcc ctctcattgc ctgacacccca atcagagaga aaccgatcct
241 ggcaggggcag ggtgccccggg gccggggccca gaatagtgca gcccagccac agtgtcgac
301 acttgctctc agttggtctg gggctggcca catggagccc gggctggagc acgcactgc
361 cagggtatgg gggtcccagg ggagccggag ccggggcagc tgaggccaga agattgagcg
421 cacgggctgt gaatgtgtgt gtgggctgt gtgtcttctg gtgtgtgtt ggtctggatt
481 ttctcgtaa tatgggcatttgcatg tgcatgttttgcatatgtt ttgtgatgtt gtgtgtttct
541 gtgtgcctgg gagtgtttgg atgtgtgtgt ttctgtgtgt gtgtgtgtat ggctgcattgt
601 ctgtgtatgg cgtgtgtctg agcgtgtgtt ttgtgtgtca tgggtgtgtaa ggcgtgtgtt
661 caggagaag gggtttggga atgttaaggca cttccccac tccttcagaa actcttctcc
721 ccacagaccc cttcctggag cagccttggg gttctgagc atcaaggtag ggagaatgcc
781 ccctccctgg ggcctaacct cttccccac ttccctgtcc c

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FIGURE 2

LOCUS

Human AMP-activated protein kinase gamma 3 subunit (PRKAG3 gene), DNA intron 2-intron 4, 989 bp

FEATURES

intron 2 <1-21
exon 3 22-177
intron 3 178-541
exon 4 542-945
intron 4 946-989>

BASE COUNT 229 a 306 c 286 g 168 t

1 caggccccat tccccttcca gagatgagct tccttagagca agaaaacagc agctcatggc
61 catcaccagc tgtgaccagc agctcagaaa gaatccgtgg gaaacggagg gccaaagcct
121 tgagatggac aaggcagaag tcggtgagg aaggggagcc accaggtca ggggaagggtg
181 aggccaaggc cagttctggg gaggtgggag ccaggggagt gggaaatccc agaggagcct
241 gggctggc tctacctcag gtccctccat aacacagagt tggacccaac cttcatcttgc
301 tggcctcagt ctccctcacat agtagagaac aaggcactgc agtgcccagag gccagcatgg
361 ccaactcaga aagatgggac agagccacta cctggggcga ctctcaggc agcccttcac
421 ctgcaaatacg gcccacacgca tccaggcttc ccactgtgc tggatgatga atggcgacag
481 cagatgagaa cgtgtttgg aagatggagt tactgtcctc ttcccctctt ccccaaaaca
541 ggtccccggc ccaggccagc tgctgagttcc accgggctgg agggccacatt ccccaagacc
601 acacccttgg ctaagctga tccctgggg gtggggactc caccacagg gtgggactgc
661 ctcccccttg actgtacagc ctcagctgca ggctccagca cagatgtatgt ggagctggcc
721 acggagttcc cagccacaga ggcctggag tggatgactg aaggcctgt ggaagagagg
781 cctgcctgt gcctgtcccc gcaggccccca tttcccaagc tgggctggga tgacgaactg
841 cgaaaaaccccg gcgccccagat ctacatgcgc ttcatgcagg agcacacctg ctacatgcc
901 atggcaacta gctccaagct agtcatcttc gacaccatgc tggaggttag gccacggctc
961 tgcccaacct gtactcactc tccatccac

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FIGURE 3

LOCUS

Human AMP-activated protein kinase gamma 3 subunit (PRKAG3 gene), intron 4-intron 10, 1722 bp

FEATURES

intron 4 <1-13
exon 5 14-95
intron 5 96-552
exon 6 553-611
intron 6 612-736
exon 7 737-782
intron 7 783-986
exon 8 987-1041
intron 8 1042-1242
exon 9 1243-1369
intron 9 1370-1522
exon 10 1523-1688
intron 10 1689-1722>

BASE COUNT 321 a 504 c 534 g 363 t

1 cctggccctt cagatcaaga aggccttctt tgctctggtg gccaacgggtg tgcggcagc
61 ccctctatgg gacagcaaga agcagagctt tggggtagag gagaggctgg ggaggtgaag
121 ggagatggag gaggtgaggg ggagatcttg tacgggtttt ctggggctga tctctgatat
181 accacaagct tggcttcagg ccaagcccag ccaggggcca gggtgagga aagtccatcc
241 ggagtctgca tggccagctg ggagaccctg gggctcaatt tccccatctg tggagccgct
301 atgaccagct gacacccttc acctccgcta ctgcatggcc ctgtgccata ggtgctaggg
361 agcaaattggg gggaggcagg agagaaagag cccacttct caggcctggg gggctgcccc
421 actgtcctgt tcccacagtc cccactgtgt ctcaagcacaa ggacactgac agggtgggga
481 ggggatctga ccctcaacct gccttcacc caaaggcccc gggctgaccc cctccccgcc
541 cctccccctgc agggatctgtg accatcaactg acttcattct ggtgctgcat cgctactaca
601 ggtccccctt ggtgaggagt gggctggaa tcttatggc acccagagg gggggggcg
661 aggggatgtcc tccctggagcc tggtgcccta gaagccacg tctttctgac ttctggagtc
721 ctgtcgatgt ctcttagtgc agatctatga gattgaacaa cataagattt agacctggag
781 gggtgagtgg ggagagggaaac cccggaaagggg gctgtgggt atggggggcc agggcttaag
841 gtggaggatg ggcagtgggg atgtccttggta gtaacaggg gagggacaat aggagctcg
901 ggtgcctgac gaaagggaag ctgcctggga ctgcaggtg aggcagggtga ccggctcccc
961 tggcctgact ctggctcttt ctgcagagat ctacctgcaaa ggctgcttca agcctctgg
1021 ctccatctct ctaatgata ggtgggtgtc tctgtcatt cacctgagcc tcctctcccc
1081 acagtcccct tccccagtcc cactcagctc tgaactcacc tcttcatttctt aggcggcaca
1141 cagacaaggg agccttgggtt ccctgccttc ctttttaggg gcctggatg gagggtgtct
1201 ctcccttaggc tgccccggagg ctcactgttc ccacatctgc agcctgtttt aagctgtcta
1261 caccctcatc aagaaccggaa tccatcgccct gcctgttctt gaccgggtt caggcaacgt
1321 actccacatc ctcacacaca aacgcctgtt caagttctgt cacatcttgc taagcctggg
1381 cccaggtggg aggaaggggg agacctgggc aggtgatcag agggcctgag gagtcttcag
1441 ccctagcgt cgtggggaaag agctggggac cctcttgcag ctgctggatc cctgatctcc
1501 acctgggtccc catcctaacc agggttccct gctggcccccgc cccttccttcc tctaccgcac
1561 tatccaagat ttgggcattcg gcacattccg agacttggct gtggtgctgg agacagcacc
1621 catctgact gcaactggaca tctttgtggta ccggcgtgtg tctgcactgc ctgtggtaaa
1681 cgaatgtggt accccacccccc aggtgagag gctcggcgtg ga

FIGURE 4

LOCUS

Human AMP-activated protein kinase gamma 3 subunit (PRKAG3 gene), intron 10-3'UTR, 1014 bp

FEATURES

intron 10 <1-41
exon 11 42-79
intron 11 80-249
exon 12 250-396
intron 12 397-739
exon 13 740-856
3'UTR 857-1014>

BASE COUNT 192 a 325 c 271 g 226 t

1 cctgttttc tccccccacc ccccacaacc accctctgca ggtcaggctcg tgggcctcta
61 ttcccgcttt gatgtgattt taagtgtcg tggaaaggtg ggatgctgca gggaggctaa
121 gggtgtgggg atgggtgggg ggcctctgtg gaccaggggg accttgacaa gtatgcagg
181 gttgacatct gttaggttagg agcccagca aggggggtgac taggagccat acttcttct
241 ctgcccagc acctggctgc ccagcaaacc tacaaccacc tggacatgag tggggagaa
301 gcccggggc agaggacact atgtctggag ggagtcctt cctgccagcc ccacggagc
361 ttgggggaag tgatcgacag gattgctcg gagcaggtaa cgtgtccctt ccattcatgc
421 ccccaacaca tatagcccaag tccttctcat gcacggctcc agccatccc gaacatcg
481 cacctggctt atccctccat ttcatgacca actcctggtg cccacactgg cctgcacctg
541 gtcctgtcca tggggccctt atgccagggg tcactgccaa ctgatcacct tagggcg
601 acaccatccc taactggttt cttaggagacg ctctctccct cagtcatgtt gggttgttc
661 ccctgattct tggcaccaac ctcaatgtgctgtt gctgttagcc catggctctg cccctctact
721 gaacattgcg gaccggcagg tacacaggct ggtgctagtg gacgagaccc agcatcttt
781 gggcggtc tccctctccg acatcctca ggcactggtg ctcagccctg ctggcatcga
841 tgccctcgaa gcttggaaat atctggatcc tcaatccaa gccacctgca cacctggaa
901 ccaatggaa gaaactggaga actcagccctt catttcccc caccggattt tgctggttca
961 gctatgattc agttaggctc tgccctgggc catgacacca gcctcttagt cttc

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FIGURE 5

LOCUS

Human AMP-activated protein kinase gamma 3 subunit (PRKAG3 gene), cDNA including the complete cds, 1647 bp

FEATURES

CDS 20-1489

/note="predicted coding region"

/translation="MEPGLEHALRRTPSWSSLGGSEHQEMSFLSEQENSSSWPSAVTSSSERIRGKRRAKALRWTRQKS
VEEGEPGQGEGPRSRAAESTGLEATFPKTTPLAQADPAGVGTPPTGWDCLPSDCTASAAGSSTDDVELATEFPATEA
WECELEGLLEERPALCLSPQAPPKLGWDDELRKPGAQIYMRFMQEHTCYDAMATSSKLVIFDTMLEIKKAFFALVANG
VRAAPLWDSKKQSFGMLTITDFILVLHRYYRSPLVQIYEQHKIETWREIYLQGCFKPLVSISPNDLSFEAVYTLIK
NRIHRLPVLDPVSGNVLHILTHKRLLKFLHIFGSLLPRPSFLYRTIQDLGIGTFRDLAVVLETAPILTALDIFVDRRV
ALPVVNECGQVVGLYSRFDVIHLAAQOTYNHLDMSVGEALRQRTLLEGVLSCQPHESLGEVIDRIAREQVHRLVLDE
TQHLLGVVSLSDILQALVLPAGIDALGA"

BASE COUNT 346 a 502 c 462 g 337 t

1 ttggcttggg gctggccaca tggagcccgg gctggagcac gcactgcgcga ggacccttc
61 ctggagcagc cttgggggtt ctgagcatca agagatgagc ttccttagagc aaaaaacag
121 cagctcatgg ccatcaccag ctgtgaccag cagctcagaa agaatccgtg ggaaacggag
181 ggccaaagcc ttgagatggaa caaggcagaa gtcgggtggag gaaggggagc caccaggtca
241 gggggaaaggc ccccggtcca ggccagctgc tgagtccacc gggctggagg ccacattccc
301 caagaccaca cccttggctc aagctgatcc tgccgggggtg ggcactccac caacagggtg
361 ggactgcctc ccctctgact gtacagccctc agctgcaggc tccagcacag atgatgtgga
421 gctgccacg gagttcccaag ccacagaggc ctggagtgat gagctagaag gcctgtgga
481 agagaggcct gcccgtgcc tgcgtccca ggcggcattt cccaagctgg gctggatga
541 cgaactgcgg aaacccggcg cccagatcta catgcgttc atgcaggagc acacctgcta
601 cgatgccatg gcaacttagct ccaagcttagt catcttcgac accatgctgg agatcaagaa
661 ggccttcttt gctctgggtt ccaacgggtt gcgggcagcc cctctatggg acagcaagaa
721 gcagagcttt gtggggatgc tgaccatcac tgacttcattc ctgggtctgc atcgctacta
781 caggcccccc ctggtccaga tctatgagat tgaacaacat aagattgaga cctggaggga
841 gatctacctg caaggctgtc tcaagccctc ggtctccatc tctcctaattt atagcctgtt
901 tgaagctgtc tacaccctca tcaagaaccg gatccatcgcc ctgcctgttc ttgaccgggt
961 gtcaggcaac gtactccaca tcctcacaca caaacgcctg ctcaagttcc tgacatctt
1021 tggttccctg ctgccccggc cctccttcctt ctaccgcact atccaagatt tgggcattgg
1081 cacattccga gacttggctg tgggtctggaa gacagcaccc atcctgactg cactggacat
1141 ctttgtggac cggcgtgtgt ctgcactgccc tgggtcaac gaatgtggtc aggtcgtgg
1201 cctctattcc cgctttgtat tgattcacct ggctgcccgg caaacctaca accacccgtt
1261 catgagtgtg ggagaagccc tgaggcagag gacactatgt ctggagggag tcctttctg
1321 ccagccccac gagagcttgg gggaaatgtat cgacaggatt gctcggggagc aggtacacag
1381 gctgggtcta gtggacgaga cccagatctt ctggggctgt gtctccctt ccgcacatcct
1441 tcaggcactg gtgtcagcc ctgctggcat cgatgcctc ggggcctgag aagatctgag
1501 tcctcaatcc caagccaccc ttgtctggat tcagctatga ttcaggtagg ctctgcctt
1561 ctcatcttc ccccaaaaaatttgcgtt tcagctatga ttcaggtagg ctctgcctt
1621 ggccatgaca ccagccctt agtcttc

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